

3 Phase Fully Actuated (High Point Signal System)

NOTES

- 1. Refer to "Roadway Standard Drawings NCDOT" dated January 2012 and "Standard Specifications for Roads and Structures" dated January 2012.
- 2. Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- 3. Phase 7 may be lagged.
- 4. Set all detector units to presence mode.
- 5. Locate new cabinet so as not to obstruct sight distance of vehicles turning right on red.
- 6. Omit "WALK" and flashing "DON'T WALK" with no pedestrian calls.
- 7. Program pedestrian heads to countdown the flashing "Don't Walk" time only.
- 8. Pavement markings are existing.
- 9. Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values supersede these values.

LEGEND

PROPOSED	<u>)</u>	<u>EXISTING</u>
\bigcirc	Traffic Signal Head	
O ->	Modified Signal Head	N/A
$\overline{}$	Sign	_
\Rightarrow	Pedestrian Signal Head With Push Button & Sign	+
<u> </u>	Signal Pole with Guy	•
	Signal Pole with Sidewalk Guy	
	Inductive Loop Detector	$\subset = = \supset$
	Controller & Cabinet	r×7 L V
	Junction Box	
	- 2-in Underground Conduit	
N/A	Right of Way	
\longrightarrow	Directional Arrow	\longrightarrow
0	Metal Pole with Mastarm	
\bigcirc	Type II Signal Pedestal	•
N/A	Curb Ramp	
$\langle A \rangle$	Street Name Sign (D3-1)	\triangle
B	"TURNING TRAFFIC MUST YIELD TO PEDESTRIANS" Sign (R10-15)	0 📵
_		

No U-Turn Sign (R3-4)

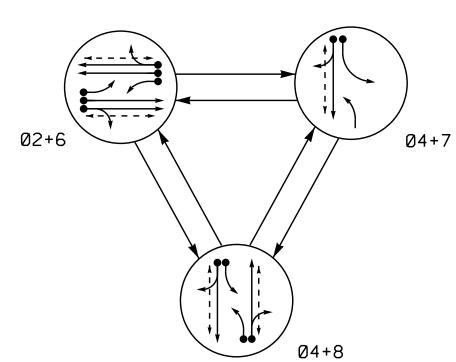
Wait. Wait to cross Main.	
Signal Upgrade	
Prepared in the Offices of:	SR 1009 (North
Divisio Divisio	at Parkway <i>A</i>
SOME OF TRANSPORTOR	Division 7 Guilford Cou

Main Street) Avenue

ounty PLAN DATE: September 2014 REVIEWED BY: 750 N.Greenfield Pkwy.Garner.NC 27529 PREPARED BY: Jeff Spence REVIEWED BY:

Point	= 10:	W D
	PT 1	William Control
DATE	—DocuSigned by	111,
	Part & Sub	4/24/202
	1BOR/REGNAMINARE	DATE

PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND

DETECTED MOVEMENT

UNDETECTED MOVEMENT (OVERLAP) UNSIGNALIZED MOVEMENT

PEDESTRIAN MOVEMENT

MetalPole #3 ----

DW DW W DRI

TABLE OF OPERATION

SIGNAL

FACE

22, 23

41, 42

62,63

81

82,83

P21, P22

P41, P42

P61, P62

P81, P82

DRK – Dark

 \longrightarrow

DW - Don't Walk

W - Walk

PHASE

MPH

(4A)

SR 1009 (North Main Street) 1 20

35 MPH +1% Grade

OASIS 2070 TIMING CHART FEATURE 4 Min Green 1 * Extension 1 * 1.0 3.0 1.0 25 25 45 Max Green 1 * 4.1 4.0 4.1 Yellow Clearance 2.1 1.7 1.7 2.1 Red Clearance 19 16 Don't Walk 1 Seconds Per Actuation Max Variable Initial * Time Before Reduction Time To Reduce * Minimum Gap SOFT RECALL SOFT RECALL Recall Mode ** **Vehicle Call Memory** YELLOW YELLOW ON

** May be changed to Min Recall by Time of Day at discretion of City Traffic Engineer

35 MPH -2% Grade 81 82 83 **6B 6**A 60 5 SR 1009 (North Main Street) - Metal Pole #1

ACCESSIBLE PEDESTRIAN SIGNAL OPERATION								
SIGNAL FACE	VOICE	TONES	INTERVAL	SPEECH MESSAGE*				
P21, P22 X	>	v l	Walk	Parkway. Walk sign is on to cross Parkway.				
	-	Flashing Don't Walk / Don't Walk	Wait. Wait to cross Parkway.					
P41, P42 X	V	Walk	Main. Walk sign is on to cross Main.					
	F41, F42 X		Flashing Don't Walk / Don't Walk	Wait. Wait to cross Main.				
P61, P62 X	>		Walk	Parkway. Walk sign is on to cross Parkway.				
	761, P62 X	-	Flashing Don't Walk / Don't Walk	Wait. Wait to cross Parkway.				
P81, P82	31, P82 X	Ţ		,	\ ,		Walk	Main. Walk sign is on to cross Main.
		_	Flashing Don't Walk / Don't Walk	Wait. Wait to cross Main.				

OASIS 2070 LOOP & DETECTOR INSTALLATION CHART

DETECTOR PROGRAMMING

SIGNAL FACE I.D.

All Heads L.E.D.

G

22, 23 41, 42

62, 63

82,83

Accessible

Pedestrian

Signal

P21, P22 P41, P42

P61, P62

P81, P82

INDUCTIVE LOOPS

SIZE

6X6

6X40

6X40

6X6

6X6

6X40

6X40

6X40

S1 | 6X6 | +230 | EXIST

S2 | 6X6 | +230 | EXIST

8A 6X40

6C

7A

- MetalPole #2

DISTANCE

FROM

STOPBAR

0 2-4-2

0 2-4-2

70 | 3

70 | 3

0 2-4-2

0 2-4-2

0 2-4-2

2-4-2

* Volume should be set to 5dB over ambient noise level

1"=20'

REVISIONS

SIG. INVENTORY NO.